

OCTOBER 1985 ADDENDA

Date of Issue: October 31, 1985

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION UNIT 1

INSERVICE INSPECTION PROGRAM FOR

ASME CLASS 1, 2, AND 3 COMPONENTS

Revision 3

This is an Addenda to the loose-leaf version of the Inservice Inspection Program for ASME Class 1, 2, and 3 Components, Revision 3 and are issued in the form of replacement pages. Revisions, additions, or deletions are incorporated directly into the affected pages. It is advisable, however, that these title sheets and all replaced pages be retained for reference in the correspondence section.

SUMMARY OF CHANGES

This is the first addenda to be published to the Inservice Inspection Program for ASME Class 1, 2, and 3 Components, Revision 3.

Replace or insert the pages listed. Changes given below are identified on the pages by a margin note, Oct 85, placed next to the affected area.

<u>Section</u>	<u>Page</u>	<u>Description</u>
Introduction	4	Line 6.3.1, Change "of" to "and"
Introduction	4	Line 6.3.6, Change "poor" to "pool"
Introduction	4	Line 6.3.8, Change "contivativity" to "conductivity"
Introduction	5	Add Type 4 AISI
Introduction	6	Delete Paragraph 7.5
System/Comp Abbr. for Class 1	3 of 4	Change "budings" to "bushings" for PRD
System/Comp Abbr. for Class 2	1	Change "branch" to "bleed" for BHS

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<u>Section</u>	<u>Page</u>	<u>Description</u>
System/Comp Abbr. for Class 2	1	Change "VEnt" to "Vent" for PVS
System/Comp Abbr. for Class 2	2	Delete "vent" in RHD
Hanger and Support Abbreviations	1 of 3	Change "fluid head" to "flued head"

6.0 Examination Boundaries cont'd

6.3 The following Systems or portions of Systems are included in the ISI examination boundaries:

	<u>OP&ID</u>	<u>SYSTEM</u>	
6.3.1	2004	Condensate and Feed Water	
6.3.2	2022	Primary Containment Cooling and Nitrogen Inerting	
6.3.3	2026	Reactor Vessel Instrumentation	
6.3.4	2027	Reactor Recirculation and Suppression Chamber Vent	Oct 85
6.3.5	2028	Reactor Building and Drywell Equipment Drain	
6.3.6	2030	Fuel Pool Cooling and Cleanup	
6.3.7	2031	Reactor Building Closed Cooling Water	
6.3.8	2032	High Conductivity Floor Drains	
6.3.9	2037	Stand By Gas Treatment and Off Gas Filters	
6.3.10	2038	Reactor Building Floor and Roof Drains	
6.3.11	2039	Control Rod Drive Hydraulic	
6.3.12	2040	Residual Heat Removal	
6.3.13	2041	Main Steam - Reactor Building	
6.3.14	2042	Reactor Water Clean Up	
6.3.15	2043	Reactor Core Isolation	
6.3.16	2044	High Pressure Coolant Injection	
6.3.17	2045	Core Spray and Stand By Liquid Control	
6.3.18	2049	Condensate Supply	
6.3.19	2084	Atmospheric Containment Atmospheric Dilution	
6.3.20	2077	Diesel Gen. Bldg. Service Water, Starting Air, Fuel, Oil, Sump and Roof Drains	
6.3.21	6000302	Augmented Off Gas	

6.0 Examination Boundaries cont'd

OP&ID

SYSTEM

6.3.22 13095-12-FSK-1-1 Post Accident Sampling

7.0 Augmented Inservice Inspections

7.1 Augmented Inservice Inspections (AISI) are not ASME Section XI Code Requirements but are 1) additional examination areas, or 2) increased inspection frequency or combinations of both which are requested by the Nuclear Regulatory Commission.

7.2 When examination components fall into the scheduled testing of both ISI and AISI, then credit for both requirements are taken (no double testing).

7.3 There are presently 3 types of Augmented Inservice Inspections required at Cooper Nuclear Station:

TYPE

DESCRIPTION

- 1 All ring girder bolting and ring girder anchor bolting is to be volumetrically inspected each ten year interval. The Anchor Bolting adjacent to the Inboard MSIV is to be visually inspected each ten year interval. (Reference NRC DRO Bulletin #74-3).
- 2 Ultrasonic examination of the feedwater nozzle safe ends, bores, and inside blend radii, liquid penetrant examination of the feedwater nozzles, and visual inspection of the feedwater spargers as required per Table 2 and Section 4.3.2.4 of NUREG-0619.
- 3 Visual inspection of the Core Spray Spargers and the Core Spray Piping inside the RPV shall be inspected each refueling outage. (Reference IE Bulletin No. 80-13).
- 4 Ultrasonic examinations, utilizing GE procedure TP508.0654 Rev. D or equivalent, are conducted to assess the integrity of the jet pump hold-down beams at the mid length ligament areas bounding the beam bolt. These examinations shall be performed once during the 2nd Ten Year Interval.

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7.4 The following ASME Catagory welds are being eliminated from the Augmented Inspection, and are listed in separate section of the ISI Program.

7.4.1 Weld susceptible to Intergranular stress corrosion cracking that are required to be inspected per NUREG-0313.

7.4.2 Welds catagory B-F and B-J that are designated as "Pipe Whip".

8.1 When an ASME Code Class 1, 2 or 3 component is determined to be impractical to inspect in accordance with ASME Section XI IWA-2000, IWB-2000, IWC-2000, IWD-2000 or IWF-2000, a specific written relief request from the ASME Code is submitted to the NRC in accordance with Section 3.0 (above). Each written relief request contains the following information as a minimum:

- 8.1.1 Identification of component(s) for which relief is requested
- 8.1.2 ASME Section III Code Class
- 8.1.3 The specific ASME Code requirement that has been determined to be impractical
- 8.1.4 Cooper Nuclear Station relief justification(s) information for requesting relief
- 8.1.5 Specific alternative inspection(s) in lieu of ASME Code Section XI requirement(s)

8.2 The following is a list of Relief Requests:

<u>Relief Request No.</u>	<u>Description</u>
1	ASME Category B-J, Inaccessible welds, primary containment
2	ASME Category C-F, RHR Drywell Spray internal to Drywell
3	ASME Category B-D, RPV Top Head Nozzle inner radii
4	ASME Category C-F, Inaccessible welds in floor penetrations
5	ASME Category C-A, Inaccessible welds on the RHR Heat Exchanger
6	ASME Category B-A, Inaccessible RPV welds

SYSTEM/COMPONENT ABBREVIATIONS FOR ASME CLASS 1

SYSTEM/COMPONENT ABBREVIATIONS

SYSTEM/COMPONENTS

PRC	Pressure Retaining Bolting - Washers	Oct 85
PRD	Pressure Retaining Bolting - Bushings	
PRE	Pressure Retaining Bolting - Ligaments	
PRF	Ring Girder Anchor Bolts	
PRG	RPV Skirt-to-Ring Girder Bolts	
PSA	HPCI Steam	
PWA	HPCI Water	
RCA	CRD Return	
RCIC	Reactor Core Isolation Cooling (Bolting)	
RF	Reactor Feedwater Bolting	
RFH	Reactor Feedwater Hanger	
RFS	Reactor Feedwater Seismic Restraint	
RHA	20" RHR Supply	
RHB	RHR - Loop A	
RHC	RHR - Loop B	
RHD	6" RHR Head Spray	
RHH	RHR Hanger	
PHR	Residual Heat Removal (Bolting)	
RHS	RHR Seismic Restraint	
RMA	Recirculation - Loop A1	
RMB	Recirculation - Loop B1	
RPA	Recirculation - Loop A2	
RPB	Recirculation - Loop B2	
RR	Reactor Recirculation (Bolting)	
RRA	Recirculation - Loop B1	

SYSTEM/COMPONENT ABBREVIATIONS FOR ASME CLASS 2

SYSTEM/COMPONENT ABBREVIATIONS

SYSTEM/COMPONENTS

BHS	Bleed Steam Hanger	
BSS	Bleed Steam Seismic Restraint	
CAD	Containment Atmospheric Dilution	
CDS	Condensate Supply	
CS	Core Spray	
CND	Condensate	
HPCI	HPCI Flange - to Pump Bolting	
MS	Main Steam	Oct 85
MSH	MS Hanger	
MSS	MS Seismic Restraint	
N	Nitrogen Primary Containment Bolting	
OG	Off Gas	
PNC	Nitrogen Primary Containment Isolation System	
PSA	HPCI Steam	
PVH	Process Vent Hanger	
PVS	Process Vent Seismic Restraint	
RAS	RHR Loop A, Steam	
RAW	RHR Loop A, Suction Bypass, Torus Test Line and Spray	
RCIC	Reactor Core Isolation Cooling	
RBS	RHR Loop B, Steam	
RBW	RHR Loop B, Water	
RCT	RHR Cross Tie	
RCIC	RCIC Flange - to Pump Bolting	
RHA	RHR 20" Supply	
RHB	RHR Loop A, Water	

SYSTEM/COMPONENT ABBREVIATIONS FOR ASME CLASS 2

SYSTEM/COMPONENT ABBREVIATIONS

SYSTEM/COMPONENTS

RHC	RHR Loop B, Water
RHD	6" RHR Head Spray
RHE	Containment Spray Loop B
RHF	RHR Heat Exchanger Flange Bolting
RHG	Containment Spray Loop A
RHH	RHR Hanger
RHR	RHR Heat Exchangers
RHS	RHR Seismic Restraint
RHRA	RHR Pump 1A Strainer, Bolting
RHRB	RHR Pump 1B Strainer, Bolting
RHRC	RHR Pump 1C Strainer, Bolting
RHRD	RHR Pump 1D Strainer, Bolting
RWCU	Reactor Water Cleanup
RSA	RCIC Steam
RWA	RCIC Water
SGTS	Standby Gas Treatment
SDN	Scram Discharge Volume North
SDS	Scram Discharge Volume South
SW	Service Water
RCC	Reactor Bldg. Closed Cooling Water
REC	
RPA	RHR Pump, A Loop
RPB	RHR Pump, B Loop
RPC	RHR Pump, C Loop
RPD	RHR Pump, D Loop

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HANGER AND SUPPORT ABBREVIATIONS

<u>FIELD</u>	<u>ABBREVIATION</u>	<u>DESCRIPTION</u>
ABS	-	Attachment to building structure
	B	Bolted
	W	Welded
APRC	-	Attachment to pressure retaining component.
	B	Bolted
	HG	Hanger
	NA	Not Attached
	PC	Primary Containment Penetration
	PI	Pipe
	PU	Pump
	VA	Valve
	VE	Vessel
	W	Welded
BS	-	Building Structure
	CB	Concrete Beam
	CC	Concrete Ceiling
	CF	Concrete Floor
	CW	Concrete Wall
	CWC	Concrete Wall and Ceiling
	CWF	Concrete Wall and Floor
	DW	Drywell
	EP	Embed Plate
	FH	Flued Head

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